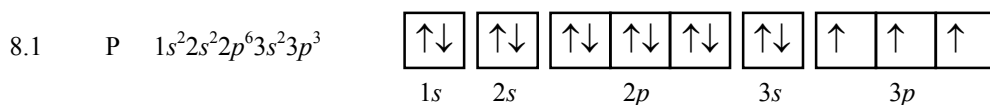
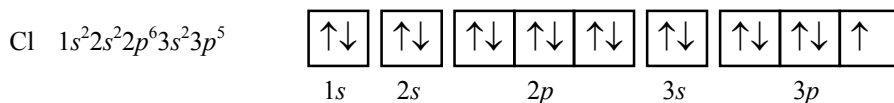


AP Chemistry Chapter 8 Answers - Kotz

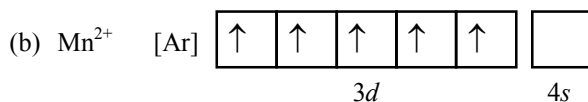
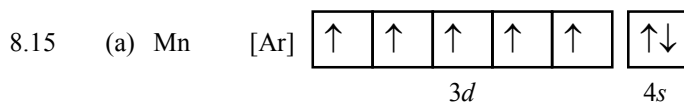
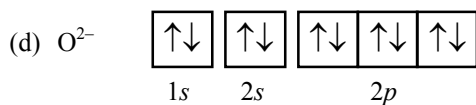
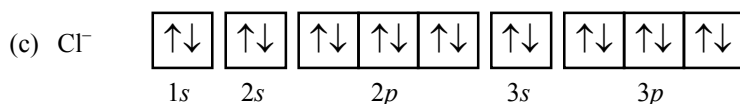
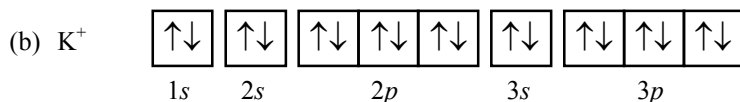
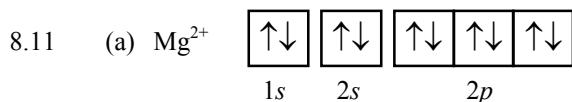
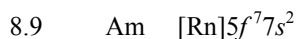
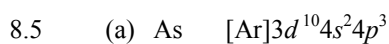
Text Problems: 1, 5, 9, 11, 15, 17, 19, 23, 27, 31, 35, 44, 49, 57, 61



Phosphorus is in Group 5A and has five electrons in its outer shell.

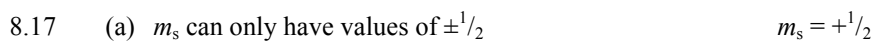


Chlorine is in Group 7A and has seven electrons in its outer shell.



(c) Yes, the +2 ion is paramagnetic.

(d) The ion has five unpaired electrons.



(b) when $\ell = 1$, m_ℓ can only have values of 0, ± 1 $m_\ell = 0$

(c) the maximum value of ℓ is $(n - 1)$ $\ell = 2$

